

Fig. 1



Bitstream header Config. Logic Reg. address	Config. Logic Register data contents						
0000	Cyclic Redundancy Check (CRC)						
0001	Frame Address						
0010	Frame Data Input						
0011	Frame Data Output						
0100	Command						
0110	Control						
0111	Status						
1000	Daisy Chain Output						
1001	Configuration Option						
1010	Reserved						
1011	Frame Length						
1100	Reserved						
1101	Reserved						
1110	Reserved						
1111	Reserved						

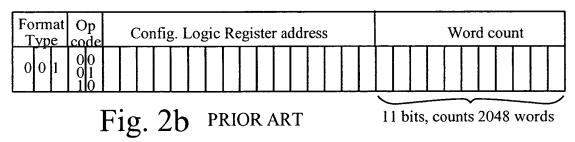
Header A
Data A
Header B
Data 1B
Data 2B
Data 3B
Data 4B
Header C
Data 1C

•

Fig. 2a PRIOR ART

Fig. 2d PRIOR ART

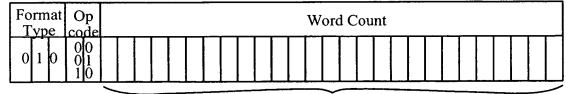
### 32-bit Command Header Format 1



32-bit Command Header Format 1

Format O	· I (	Confi	g. Lo	gic	Re	gis	ter	A	ddı	res	s						W	orc	1 C	ou	nt		
0 0 1 0	0   0												0	0	0	0	0	0	0	0	0	0	0
																		~					フ

#### 32-bit Command Header Format 2



27 bits, counts 2.68 million words or 10 megabytes

Fig. 2c PRIOR ART

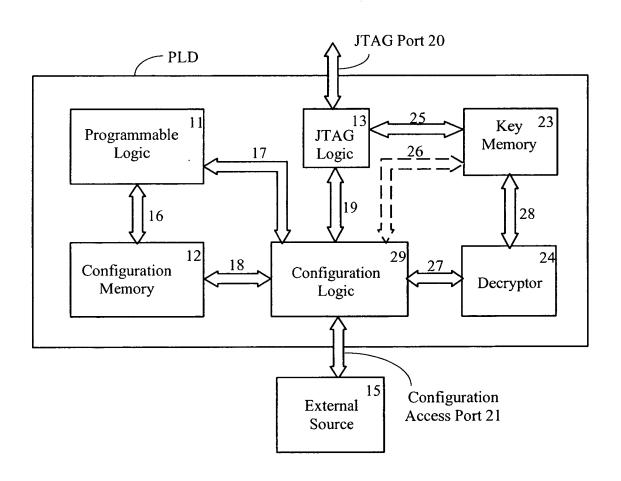


Fig. 3

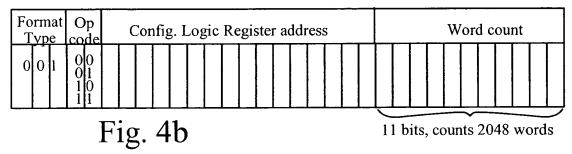
Header A					
Data A					
Header B					
Data B					
Header C					
Data C					
Header D					
Data 1D					
Data 2D					
Data 3D					

Bitstream header Config. Logic Reg. address	Config. Logic Register data contents							
0000	Cyclic Redundancy Check (CRC)							
0001	Frame Address							
0010	Frame Data Input							
0011	Frame Data Output							
0100	Command							
0110	Control							
0111	Status							
1000	Daisy Chain Output							
1001	Configuration Option							
1010	Reserved							
1011	Frame Length							
1100	Cipher block chaining(CBC) starter							
1101	Initial key address							
1110 Reserved								
1111	Reserved							

Fig. 4a

Fig. 4d

# 32-bit Command Header Format 1



32-bit Command Header Format 1

Format Op Type code	Config. Logic Register Address	Word Count
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		

# 32-bit Command Header Format 2

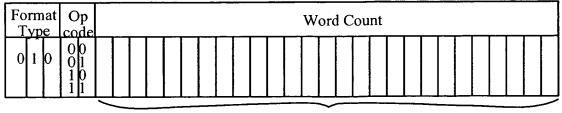


Fig. 4c

27 bits, counts 2.68 million words or 10 megabytes

#### UNENCRYPTED VERSION

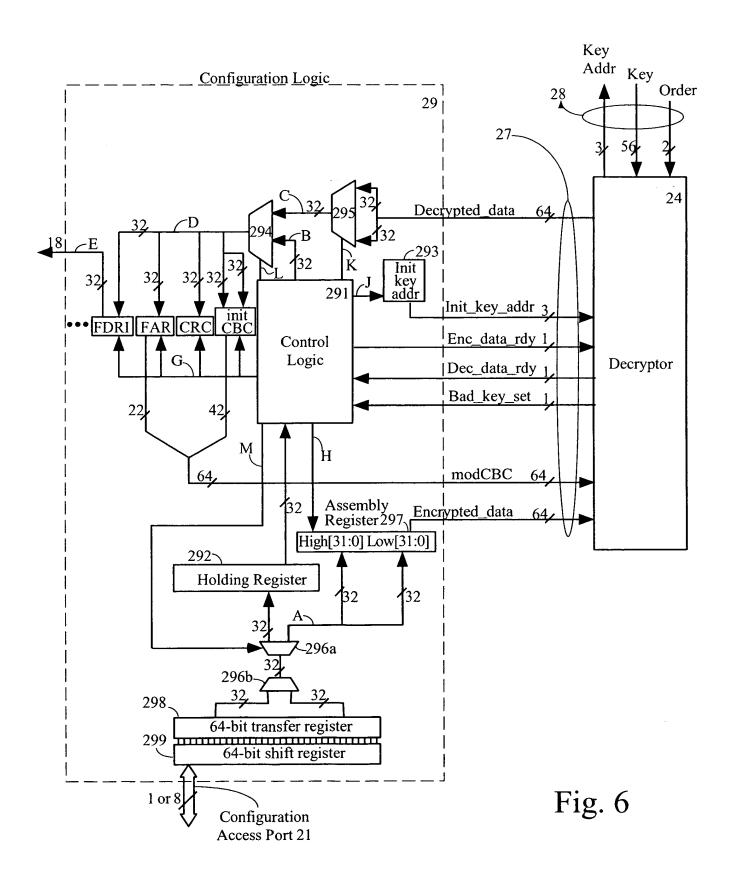
Sync word 10101010100110010101010101100110 RCRC command 0000000000000000000000000000111 Type 1 write 1 words to FLR 001100000000001011000000000001 data word 0 00000000000000000000000000011001 Type 1 write 1 words to COR 001100000000001001000000000001 data word 0 0000000000000001111111111000001 001100000000001110000000000001 Type 1 write 1 words to ID data word 0 0000000100000001000000010010011 Type 1 write 1 words to MASK 00110000000000011000000000001 Type 1 write 1 words to FAR 001100000000000001000000000001 Type 2 write 10530 words to FDRI 010100000000000001010010010010 data word 3 00001000000000111111111111111100

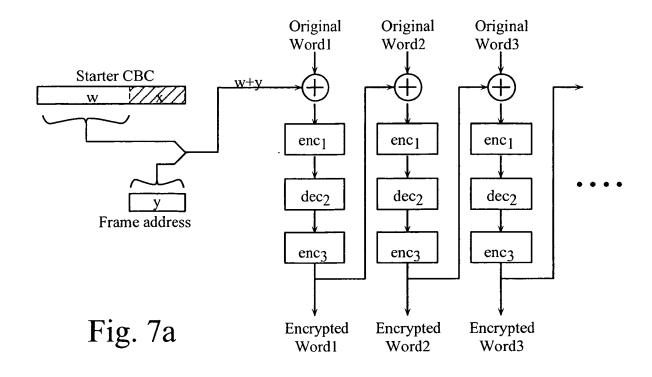
Fig. 5a

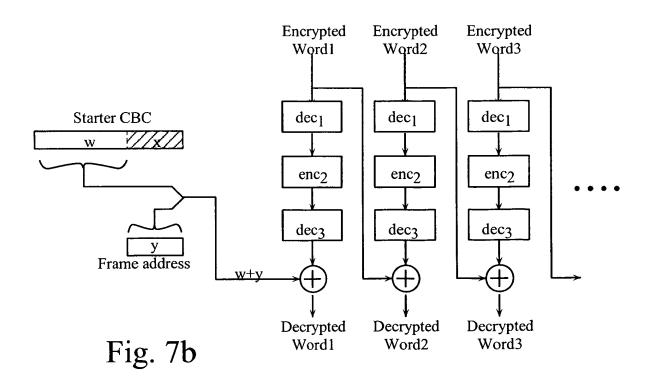
#### ENCRYPTED VERSION

```
Sync word 1010101010100101010101010101100110
 RCRC command 000000000000000000000000000111
 Type 1 write 1 words to FLR
                    001100000000001011000000000001
            data word 0 00000000000000000000000000011001
 Type 1 write 1 words to COR 001100000000001001000000000001
            data word 0 000000000000011111111111000001
 Type 1 write 1 words to ID
                    0011000000000011100000000000001
            data word 0 0000000100000001000000010010011
 Type 1 write 1 words to MASK 001100000000000110000000000001
            Type 1 write 1 words to FAR
                   001100000000000001000000000001
            Type 1 write 1 words to CMD 0011000000000000100000000000001
           Type 1 write 1 word to KEY ADDR 00110000000000110000000000001
            Type 1 write 2 words to CBC 001100000000001101000000000010
            data word 0 10010000101010111100110111101111
            data word 1 00010010001101000101011001111000
Type 2 dec 10530 words to FDRI 010110000000000001010010010010
            data word 0 0001010111011011001100101001000
            data word 1 111000001110001101111111101100111
            data word 2 10101010011111011110001100110011
            data word 3 01100001101011100001011010110100
         data word 10526 010110011011111011000101010101010
         data word 10527 0010100101111111101011110110000
         data word 10528 110000000010101001100011000101010
         data word 10529 0111111111001000001100011100010
           Auto CRC word 00000000000000001011111011001010
 LFRM command 00000000000000000000000000000011
           Type 1 write 1 words to COR 001100000000001001000000000001
            data word 0 000000000000011111111111000001
 Type 1 write 1 words to CTL 001100000000000101000000000001
            Type 1 write 1 words to CMD 0011000000000000100000000000001
         data word 0 000000000000000000101111001111
 DESYNCH command 000000000000000000000000001101
```

Fig. 5b







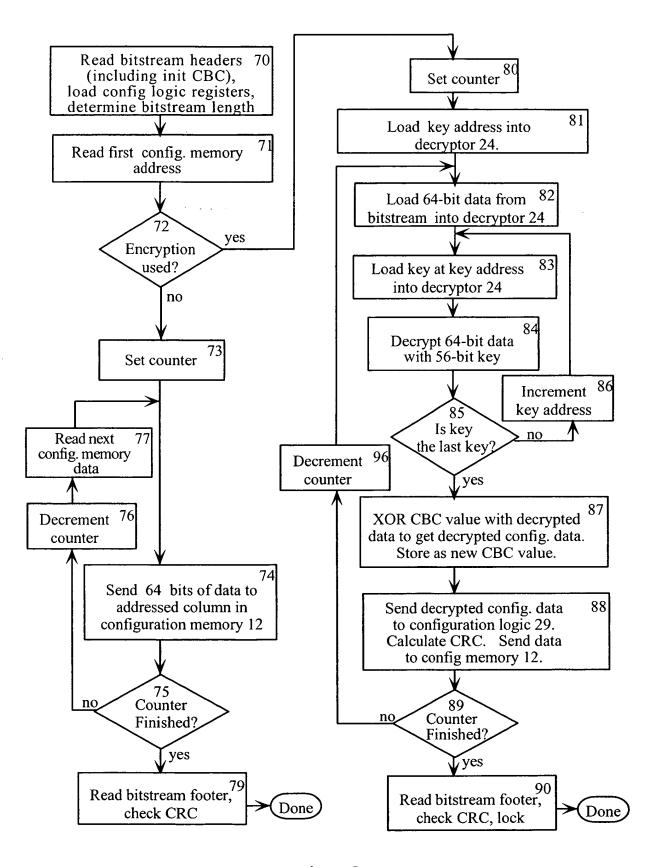


Fig. 8

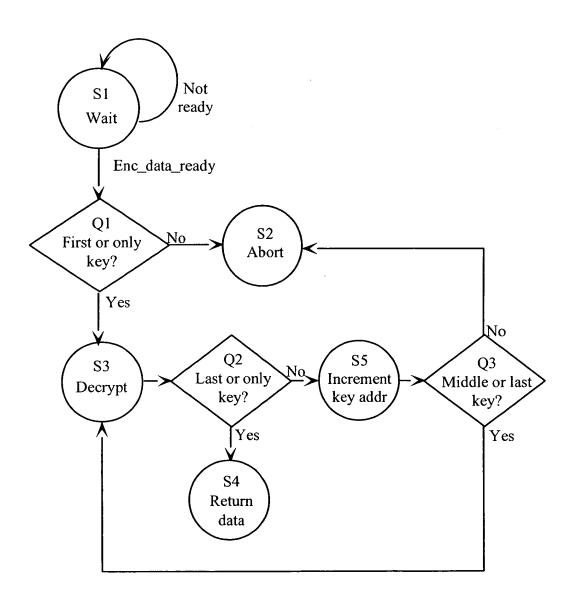
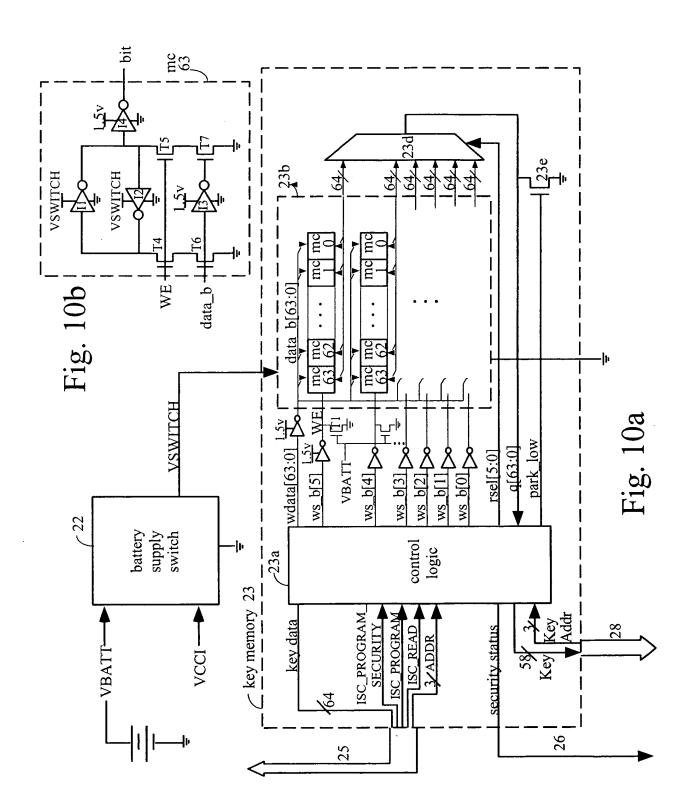
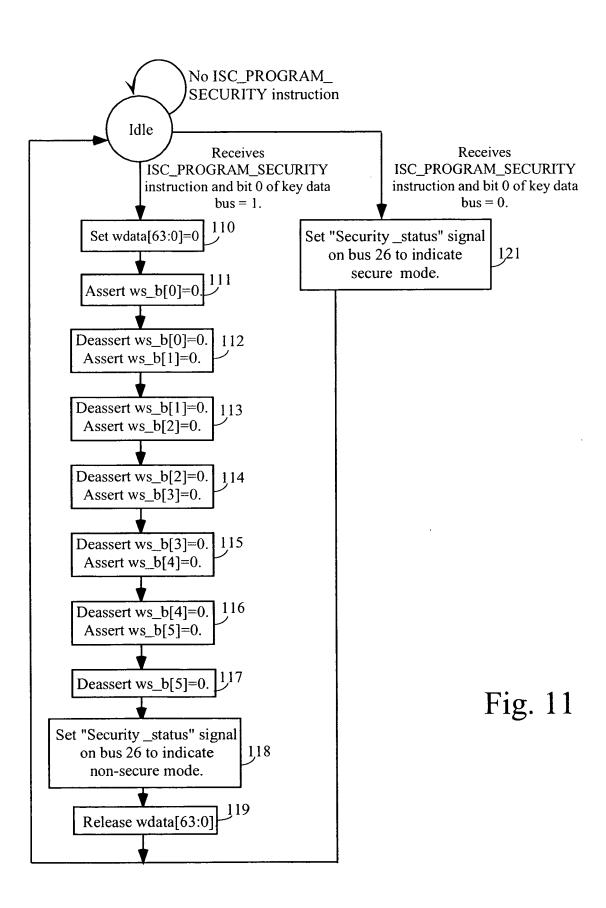


Fig. 9





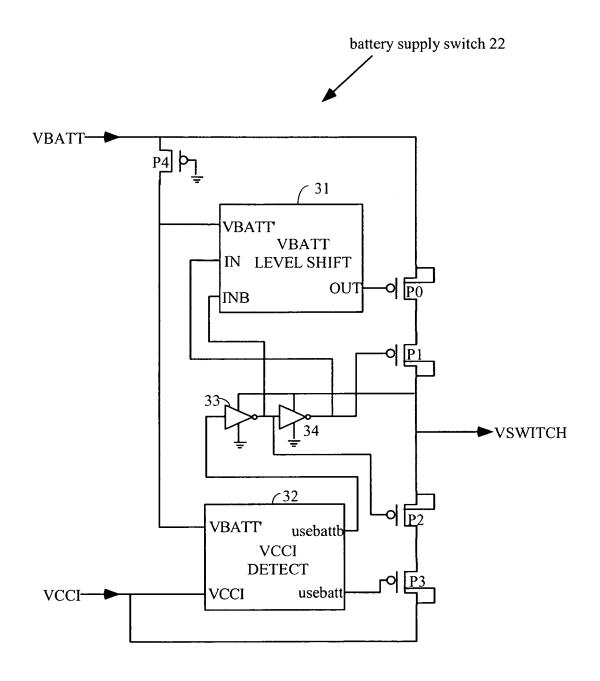
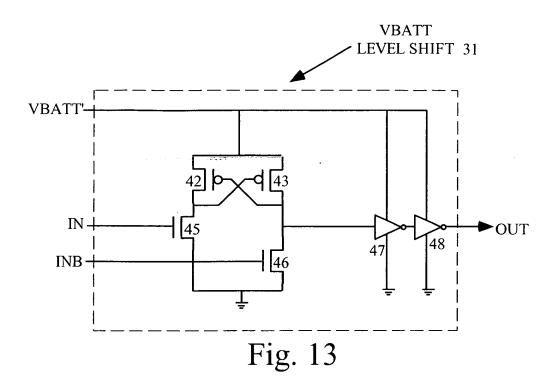
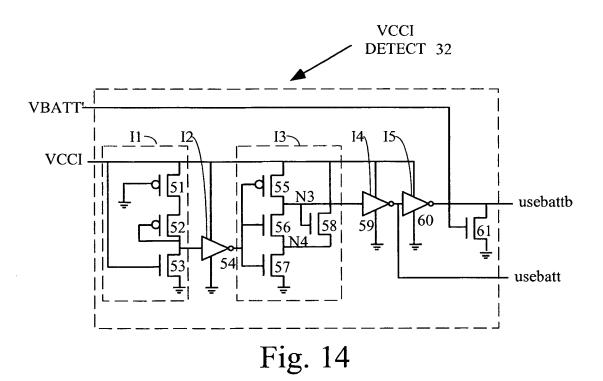


Fig. 12





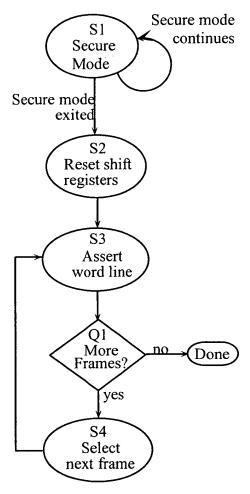


Fig. 15

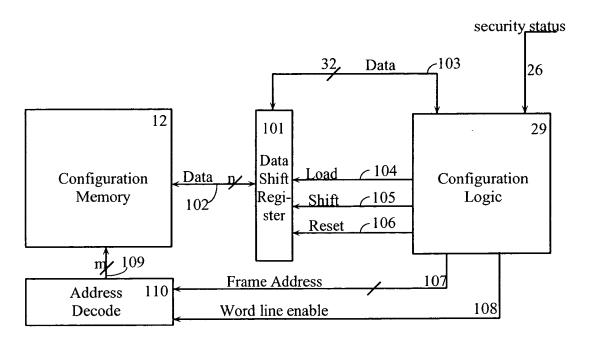


Fig. 16